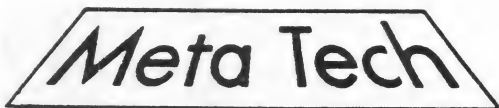


Meta Tech

Specializing In Innovative Information Processing

Pascal/MT Implementation Specification

- 0- Date: November 8, 1979
Version: Release 2.5
- 1- Distributed, Implemented and Maintained by:
MetaTech, 8672-I Via Mallorca, La Jolla, Ca. 92037
(714) 223-5566 x289 or (714) 455-6618
- 2- Machine: Intel 8080/8085 and Zilog Z80
- 3- System Configuration:
Pascal/MT operates under the CP/M operating system (or and equivalent system such as CDOS, IMDOS, etc.) in a minimum of 32K bytes of memory.
- The package consists of a compiler and symbolic debugger and generates 8080/Z80 object code directly from the Pascal program source.
- The symbolic debugging package is optionally copied into the output object file by the compiler.
- 4- Distribution:
The Pascal/MT package is distributed on a single density 8-inch floppy diskette which contains:
- The compiler for Pascal/MT
 - The symbolic debugging package
 - The text for the compiler error messages
 - Two utility programs written in Pascal/MT to illustrate the facilities of the language
- Cost of a single system license for Pascal/MT (includes manual) is \$99.95
Manual available for \$30.00
Source for the run-time package is \$50.00
- Master Charge, Visa, UPS COD, and Purchase Orders
- Standard:
Pascal/MT implements (in 2.5) a subset of the full Pascal language. This was done to generate both space and time efficient code for 8-bit microcomputers.
- Pascal/MT also contains a number of "built-in" procedures. This allows source code using these procedures to be portable to other systems providing appropriate routines are implemented on the other systems.
- Pascal/MT omits the following features from the Pascal standard (Jensen & Wirth 2nd Ed.):
- *No LABEL declaration and therefore no GOTOS
 - Non-standard file support for CP/M files
 - *Enumeration and Record types not implemented
 - PACKED is ignored on boolean arrays
 - All variables and parameters are allocated statically
- Items marked with a * are being implemented in the subsequent releases of Pascal/MT.
- 6- Extensions:
Pascal/MT contains the following extensions (in release 2.5):
- Pre-declared arrays "INPUT" and "OUTPUT" for manipulating I/O ports directly.
 - EXTERNAL assembly language procedure declarations for using pre-assembled routines (using PL/M parameter passing)
 - OPEN, CLOSE, DELETE, CREATE, BLOCKREAD, BLOCKWRITE routines for accessing CP/M files.
 - Logical un-typed boolean operators for and (&) or (!) and not (~)
 - 18-digit BCD arithmetic package.
- 7- Measurements:
Compilation speed is approximately 600 lines/min. 6K bytes symbol table space is available in a 32K system and 38K bytes table space is available in a 64K system. Run-time code (without debugger) is 5 to 10 times faster than P-code systems, and is 1.5 to 3 times larger than P-code systems (but Pascal/MT requires no interpreter).
- 8- Availability:
Pascal/MT Release 2.5 is available immediately.
- Enhanced releases will be made periodically throughout the next year.



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